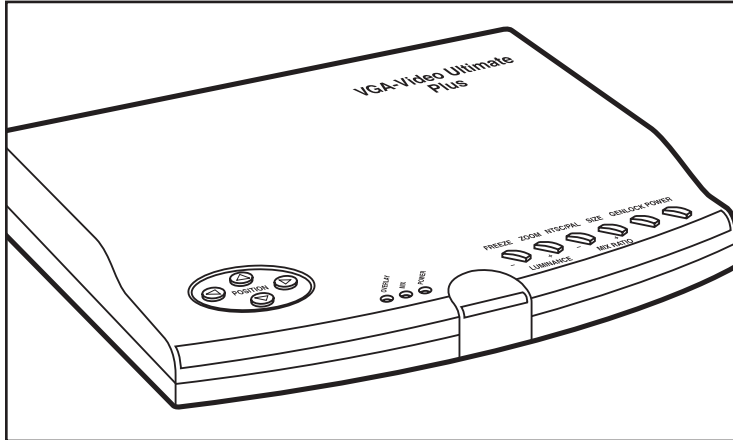




# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### VGA TO VIDEO ULTIMATE PLUS



***A low-cost tool to overlay live or recorded video with unlimited graphics and text from your PC!***

#### Key Features

- ▶ ***Overlays computer-generated text and images to existing video for output to a TV or VCR.***
- ▶ ***Converts VGA resolutions up to 1600 x 1200 into S-VHS, composite, or RGBS video.***
- ▶ ***New "kangaroo" video encoder provides the clearest PC-to-TV picture ever.***
- ▶ ***No software required for conversion.***
- ▶ ***Easily switch between video only, computer only, and overlay.***
- ▶ ***Ideal for electronic message boards and kiosks.***

**M**ake a great impression with your video presentations or displays! With the VGA to Video Ultimate Plus at your side, you can achieve that—plus more.

You no longer have to contract to off-site technicians to overlay your video with color and text. Now *you're* the producer and *you* call the shots, because the Ultimate Plus brings the studio straight to your desktop.

The Ultimate Plus, a high-resolution VGA to video converter with video overlay, seamlessly splices existing or live video with professional-looking overlay graphics, digital video, and animation on video—without the need for a software driver. It turns your PC into a character and graphics generator, but it doesn't have the limitations of traditional character generators. If your PC supports a variety of colors, fonts, and character sizes, then so does your video output with the Ultimate Plus.

With video overlay at your disposal, everything from "prosumer" videography—such as amateur/home video productions—to video signage is possible. The business applications are numerous.

For instance, if you're trying to reach a broader audience or garner the attention of "walk-by" business, use the converter to set up a customized kiosk or "dynamic sign."

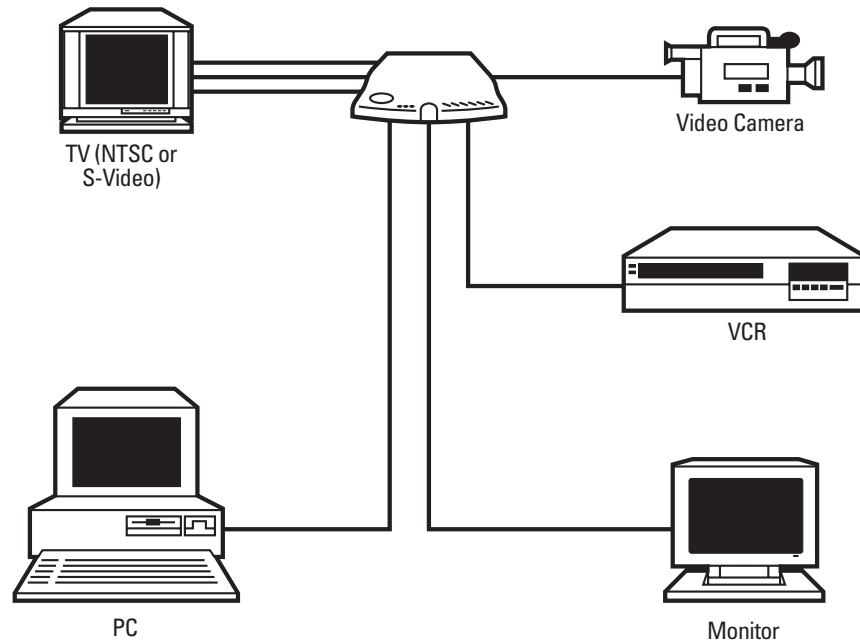
And last-second changes aren't a problem. In real time, you can fine-tune and update your video captions and titling in the time it takes you to make the changes on your computer.

What's more, the Ultimate Plus enables you to remotely switch between two video sources (S-Video and composite video), the VGA source, and a source overlaying the VGA on the video—without having to fiddle with your computer, TV, VCR, or video camera.

With the new "kangaroo" video encoder, the converter can support resolutions up to 1600 x 1200 for PCs. It uses the latest-generation video encoder with frame buffer architecture, which gives you the sharpest and most stable image output on TV.

The converter's universal PC compatibility enables you to use your choice of PC and display card. It even works with Macintosh<sup>®</sup> computers with an HD15 VGA standard display port.

**The Ultimate Plus is a “plug and display” video converter. To display your PC’s images on a TV, simply plug in the cables.**



## Specifications

**Compliance:** Power Supply: UL\*, CUL, TUV, CF

**Hardware Requirements:**

IBM® AT®, PS/2®, or compatible with VGA output, serial mouse, 16-MB RAM, 40-MB hard drive; TV, VCR, etc., with composite video, S-VHS, analog RGBS, or RF (modulator required)

**Remote Range:** Up to 32.8 ft. (10 m) under optimal conditions

**Resolution:** Up to 1600 x 1200

**Refresh Rates:** See the table below

**Software Requirements:**

Windows® 95/98/Me, Windows NT®, Windows 2000

**Video Inputs:** VGA, composite video, S-Video

**Video Outputs:** NTSC or PAL (selectable), VGA, composite video, S-Video, RGBS video

**Temperature Tolerance:**

Operating: 32 to 100°F (0 to 37°C); Storage: 20 to 100°F (-6 to +37°C)

**Humidity Tolerance:** Up to 99% maximum relative

**Approvals:** CE

**Power:** Base unit:

Input: 100–240 VAC, 47–63 Hz, 0.3 amp;

Output: 7 VDC, 1.2 amp;

Remote control: (2) AAA batteries

**Size:** Base unit:

5.1"H x 7.7"W x 1.3"D (13 x 19.6 x 3.3 cm);

Remote control: 7.7"H x 2.4"W x 1"D (19.6 x 6.1 x 2.5 cm)

**Weight:** 1 lb. (0.5 kg)

### VGA Display Modes:

Resolution	720x480	640x480	800x600	1024x768	1152x864	1280x960	1280x1024	1600x1200
Refresh Rate (Hz)	70	60, 70, 72, 75, 85, 100, 120	56, 60, 70, 72, 75, 85, 100	60, 70, 72, 75	60, 70, 72, 75	60	60	60

### Mac Display Modes:

Resolution	640x480	832x624	800x600	1024x768	1152x864
Refresh Rate (Hz)	60, 66, 72, 75, 85, 100, 120	75	56, 60, 72, 75	60, 70, 75	60, 70

### iMac Display Modes:

Resolution	640x480	800x600	1024x768
Refresh Rate (Hz)	117	95	75

## Technically Speaking

The Ultimate Plus converts VGA resolutions into S-VHS, composite, or RGBS video by translating the horizontal and vertical scanning of the computer video signal into a format that an ordinary TV can display or a VCR can record.

Many computer-generated images look good on TV. And now images that require a 1600 x 1200 resolution—such as certain spreadsheets, CAD, and other graphics—look just as sharp on a TV, thanks to the converter's new "kangaroo" video encoder.

Converting PC images to TV is smart. Since TV is more economical and available nearly anywhere, you don't have to buy an expensive large-screen monitor. Just put that old TV to good use!

To display the same image from your computer on multiple TVs, simply connect one TV to the next using a composite video cable or the included S-Video cable between the Video In and Video Out ports on the Ultimate Plus. However, because of signal degradation, we suggest not using more than five TVs.

The amount of signal degradation depends on the quality of the TVs and the cable lengths.

And, if your TV only has a coax cable input, you'll need an RF modulator (or a BLACK BOX® Video Balun) to convert the composite video signal from the device. Or you can use a VCR to act as the RF modulator.

The front panel of the Ultimate Plus includes genlock controls, which ensure precise timing of multiple video devices when they're used together.

The device also features 24-bit true color conversion, enabling you to adjust the brightness, contrast, hue, and color and eliminate the flicker commonly seen on large-screen TV displays.

You can perform all of these functions using the remote control with integrated wireless mouse. Even better, you can also size the picture (using underscan, overscan, and super underscan), zoom in on nine screen areas, freeze and unfreeze the frame, position the mouse pointer, and toggle between the computer or external video screen.

## Typical Application

Use the converter to customize video for a specific audience, whether at a trade show booth or for a sales presentation. It's easy: You can switch between video only, computer only, and computer overlaid on video simply by changing the background of your presentation slide.

## What the Package Includes

- The Ultimate Plus.
- Remote control.
- (2) Batteries for the remote control.
- RCA® video cable.
- S-video cable.
- VGA pass-through cable.
- USB 3.5-mm cable
- VGA Y cable.
- 6-pin mini DIN T-adapter cable.
- 5-pin DIN T-adapter cable.
- Users' manual.

## Ordering Information

ITEM	CODE
VGA to Video Ultimate Plus .....	AC335A-R2
<i>You may also need...</i>	
Video Balun .....	FA856

## Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

### Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.

- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network

managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best

support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.